

Data Science

University of Edinburgh

Venues

Central Campus

Content

Data science is the study of the computational principles, methods, and systems for extracting and structuring knowledge from data; and the application and use of those principles. Large data sets are now generated by almost every activity in science, society, and commerce - ranging from molecular biology to social media, from sustainable energy to health care.

As an MSc Data Science student you will explore how to efficiently find patterns in these vast streams of data. Many research areas have tackled parts of this problem. Machine learning focuses on finding patterns and making predictions from data; ideas from algorithms and databases are required to build systems that scale to big data streams; and separate research areas have grown around different types of unstructured data such as text, images, sensor data, video, and speech.

Start Date

September

Qualification

Postgraduate Master's

Study Method

Full time

Award Title

MSc

Course Length

1 year

Faculty

College of Science and Engineering

Department

Informatics

Entry Requirements

A UK 2:1 honours degree, or its international equivalent, in informatics, artificial intelligence, cognitive science, computer science, electrical engineering, linguistics, mathematics, philosophy, physics, psychology or another quantitative discipline.

Entry to this programme is competitive. A typical offer will normally require a UK first class honours degree.

You should have experience of computer programming equivalent to an introductory programming course and have completed the equivalent to 60 credits of mathematics during your degree that have typically covered the following subjects/topics: Calculus (differentiation and integration), Linear Algebra (vectors and multi-dimensional matrices), Discrete Mathematics and Mathematical reasoning (eg. Induction and reasoning, Graph theoretic models, proofs), and Probability (concepts in discrete and continuous probabilities, Markov Chains etc.)

SCQF Level

11

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

Address

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Website

www.ed.ac.uk